SS MAILING LABEL NO. EL 733 591 295 US

PATENT APPLICATION Docket No: 15689.61

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
	Yukihiko OKUMURA et al.)
Serial No.:	09/701,705) Art Unit) 2661
Filing Date:	December 1, 2000) 2001
Confirmation No.:	7195	{
For:	Channel Estimation Device and Method, Demodulation Device and Method, and Fading Frequency Decision Device and Method)))

REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Honorable Commissioner of Patents and Trademarks Washington, DC 20231

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OCT 3 0 2002

Technology Center 2600

Sir:

The undersigned, Yoshitaro Shimanuki, declares: that he is the Intellectual Property Executive Manager of NTT DoCoMo, Inc., and that he is authorized to execute this Revocation and Substitute Power of Attorney on behalf of NTT DoCoMo, Inc.; and that NTT DoCoMo, Inc. is the assignee of the entire interest of the above-identified application, as shown by the assignments recorded in the United States Patent Office at Reel 011499, Frame 0223, a copy of said assignment is attached at Exhibit A hereto; and that the attached assignment has been reviewed by him, and to the best of his knowledge and belief title is in the assignee NTT DoCoMo, Inc.. The assignee, NTT DoCoMo, Inc., hereby revokes all previous powers of attorney in the above-identified application, and now hereby appoints all attorneys under customer number:



PATENT TRADEMARK OFFICE

of WORKMAN, NYDEGGER & SEELEY, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, as attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the Letters Patent, and to transact all business in the Patent and Trademark Office connected therewith. The declarant further declares that all statements made herein of his own knowledge are true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon. All correspondence and telephonic communications should be directed to:

ADRIAN J. LEE
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

All previous powers of attorney are hereby revoked.

Signed this <u>30</u> day of September, 2002.

Yoshitaro Shimanuki

Intellectual Property Executive Manager

Yoshitaro Shimanubi

NTT DoCoMo, Inc.

11-1, Nagatacho 2-Chome

Chiyoda-Ku

Tokyo 100-6150, Japan

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Confirmation No.:	7195)
For:	CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD)))

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

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Assistant Commissioner for Patents Washington, DC 20231

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Sir:

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on this 25th day of ()colver , 2002:

- Transmittal for Revocation and Substitute Power of Attorney and Change of Attorney Docket No. (2 pages, in triplicate)
- Revocation and Substitute Power of Attorney and Exhibit A (8 pages)
- Change of Attorney Docket Number (2 pages)
- Postcard

Respectfully submitted,

ADRIÁN J. LEE Attorney for Applicant

Registration No. 42,785

022913

PATENT TRADEMARK OFFICE

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
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Serial No.:	09/701,705) Art Unit
Filing Date:	December 1, 2000) 2661
Confirmation No.:	7195)
For:	CHANNEL ESTIMATION DEVICE AND	RECEIVED
	METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD	OCT 3 0 2002
) Technology Center 2600

TRANSMITTAL FOR REVOCATION AND SUBSTITUTE POWER OF ATTORNEY and CHANGE OF ATTORNEY DOCKET NUMBER

Assistant Commissioner for Patents Washington, DC 20231

Sir:

Transmitted herewith for filing is a Revocation and Substitute Power of Attorney and Change of Attorney Docket Number. Please address all future correspondence in connection with the above-identified patent application to the attention of the undersigned. Triplicate copies of this letter are enclosed.

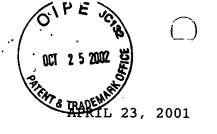
Dated this 25th day of October, 2002.

Respectfully submitted,

ADRIAN J. LEE Attorney for Applicant Registration No. 42,785

022913

PATENT TRADEMARK OFFICE





TED ST. DEPARTMENT OF COMMERCE

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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PTAS

BROWN RAYSMAN MILLSTEIN FELDER & STEINER MATTHEW J. MARQUARDT 120 WEST 45TH STREET NEW YORK, NY 10036



OCT 3 0 2002

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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/01/2000

REEL/FRAME: 011499/0223

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OKUMURA, YUKIHIKO

DOC DATE: 11/22/2000

ASSIGNOR:

ANDO, HIDEHIRO

DOC DATE: 11/22/2000

ASSIGNOR:

USUDA, MASAFUMI

DOC DATE: 11/22/2000

ASSIGNOR:

ISHIKAWA, YOSHIHIRO

DOC DATE: 11/22/2000

ASSIGNOR:

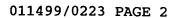
ONOE, SEIZO

DOC DATE: 11/22/2000

ASSIGNEE:

NTT DOCOMO, INC. 11-1, NAGATACHO 2-CHOME CHIYODA-KU, TOKYO 100-6150, JAPAN

REGORDS UPDATED



SERIAL NUMBER: 09701705

PATENT NUMBER:

FILING DATE: 12/01/2000

ISSUE DATE:

JEFFREY OLSEN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

ASSIGNMENT

WHEREAS, we, Yukihiko OKUMURA, a citizen of Japan, residing at 9-2-3-405, Sugita, Isogo-ku, Yokohama-shi, Kanagawa 235-0033, Japan; Hidehiro ANDO, a citizen of Japan, residing at 3-16-5-101, Serigaya, Konan-ku, Yokohama-shi, Kanagawa 233-0006, Japan; Masafumi USUDA, a citizen of Japan, residing at 18-11-102, Noukendaidori, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0053, Japan; Yoshihiro ISHIKAWA, a citizen of Japan, residing at 4-18-4-503, Nobi, Yokosuka-shi, Kanagawa 239-0841, Japan and Seizo ONOE, a citizen of Japan, residing at 1974-21, Mutsuura-cho, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0032, Japan have invented one or more inventions disclosed in an application for Letters Patent of the United States titled

CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD

(hereinafter referred to as "said application"), said application having been filed herewith.

WHEREAS, NTT DoCoMo, Inc., (hereinafter referred to as "the Assignee"), a Japanese corporation, having a place of business at 11-1, Nagatacho 2-chome, Chiyodaku, Tokyo 100-6150, Japan; is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, we have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may We hereby covenant and agree that we will, upon request of the Assignee, communicate to the Assignee any facts known to us relating to said invention(s) and the history thereof, testify in any legal proceeding, execute all lawful papers including without limitation all divisional, continuing and reissue applications and all rightful oaths and declarations, and generally do all further acts which may be deemed necessary by the Assignee to obtain and enforce proper patent protection for said invention(s) in all countries.

IN TESTIMONY WHEREOF, we have executed this document on the date indicated below.

Date:	November 22, 2000
•	yokatha Okuma
	(Signature) Yukihiko OKUMURA
Date:	November 22, 2000
	Hidehiro ando
	(Signature) Hidehiro ANDO
Date:	November 22, 2000
•	Masafumi Usuda.
	(Signature) Masafumi USUDA
Date:	November 22, 2000
	Yoshihiro Oshibama
	(Signature) Yoshihiro ISHIKAWA
Date:	November 22, 2000
	Six One
	(Signature) Seizo ONOE

12-1-00



528 R 09/701705 Attorney Docket No. 3815710/EC 2000

RM COVER

PAIEN	15 UNLY			
To the Honorable Commissioner of Patents and Trademarks.	Please record the attached original documents or copy thereof.			
Name of conveying party(ies):	2. Name and address of receiving party(ies):			
Yukihiko OKUMURA, Hidehiro ANDO, Masafumi	Name: NTT DOCOMO, INC.			
USUDA, Yoshihiro ISHIKAWA and Seizo ONOE	Internal Address: 11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150, Japan			
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No				
3. Nature of conveyance:				
	Street Address:			
☐ Security Agreement ☐ Change of Name	City: State: ZIP:			
☐ Other	Additional name(s) & address(es) attached? ☐Yes ☒ No			
Execution Date: November 22, 2000				
Application number(s) or patent number(s)	09/701705			
If this document is being filed together with a new application	on, the execution date of the application is:			
A. Patent Application No.(s)	B. Patent No.(s)			
	·			
	1			
Additional numbers atta	iched? Yes No			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
BROWN RAYSMAN MILLSTEIN FELDER &	7 Total foo (27 CER 2.44); 0.40.00			
STEINER LLP	7. Total fee (37 CFR 3.41): \$ <u>40.00</u> Check enclosed			
120 West 45th Street New York, New York 10036	Authorized to be charged to deposit account			
(212) 944-1515	8. Deposit account number: 02-4270			
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Matthew J. Marquardt Marquardt Marquardt Marquardt				
	nature Date			
Total number of pages including cover sheet, attachments and document: 3 Mail documents to be recorded with required cover sheet information to:				
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PATENT APPLICATION Docket No: 15689.61

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09/701,705

Art Unit 2661

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December 1, 2000

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METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD

CHANGE OF ATTORNEY DOCKET NUMBER

Honorable Commissioner of Patents and Trademarks Washington, D. C. 20231

Sir:

For convenience and ready identification of the papers received in connection with the above-identified patent application, please reference in all future communications my Docket No. 15689.61. All communications should remain addressed to the undersigned:

ADRIAN J. LEE
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
(801) 533-9800

Dated this 25th day of October, 2002.

Respectfully submitted,

ADRIAN J. LEE

Attorney for Applicant

Registration No. 42,785

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AJL:jrj